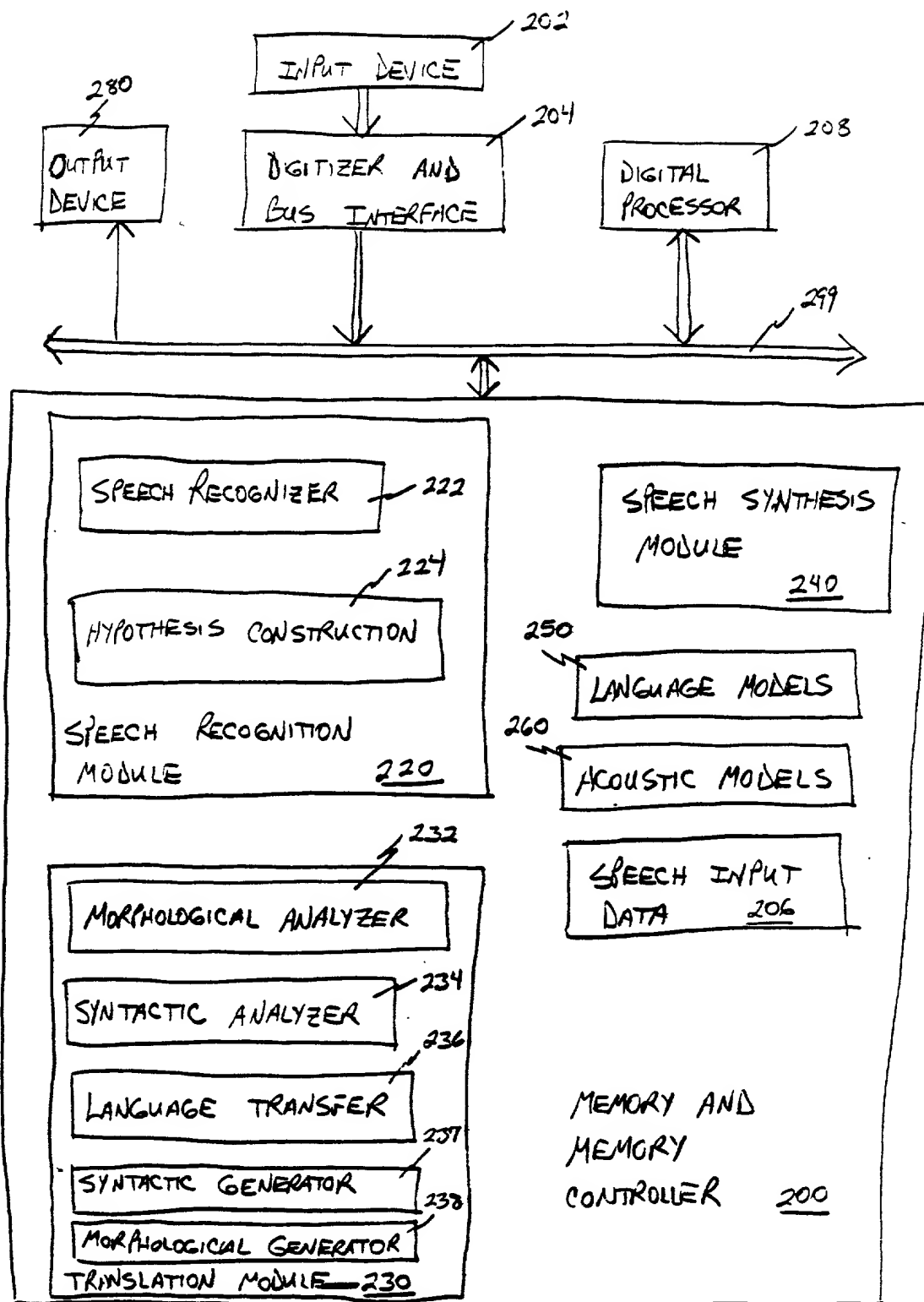


Figure 1



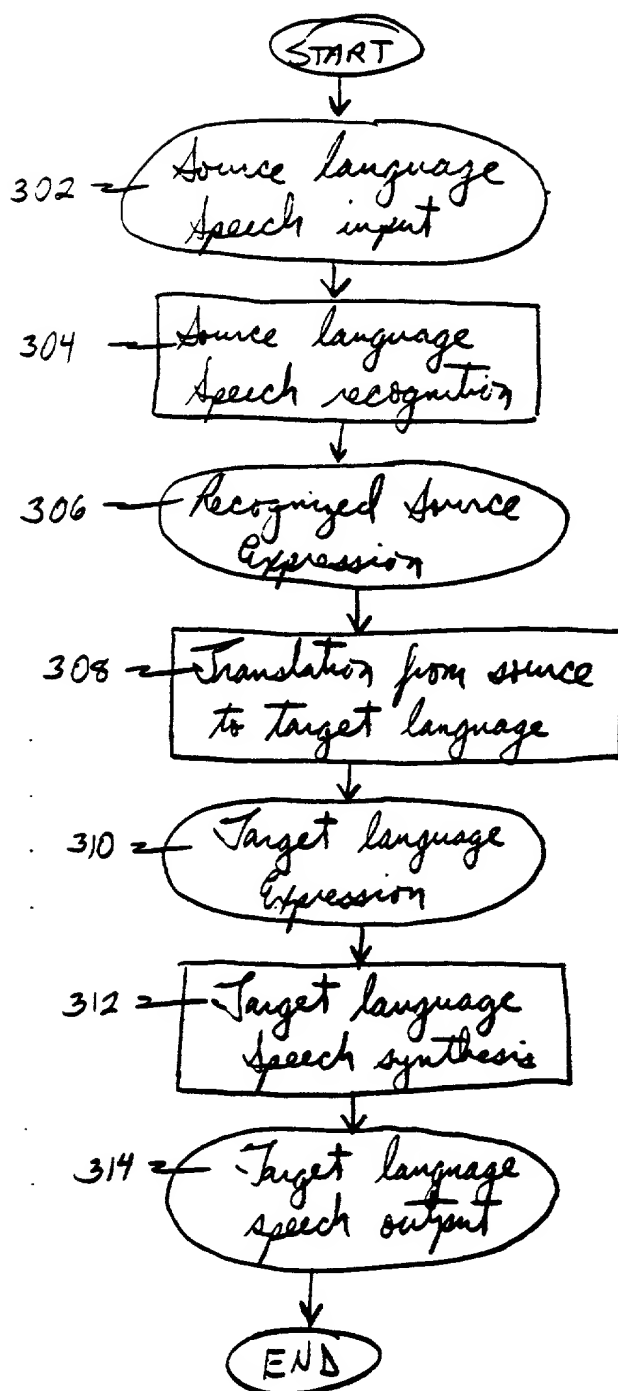


FIGURE 3

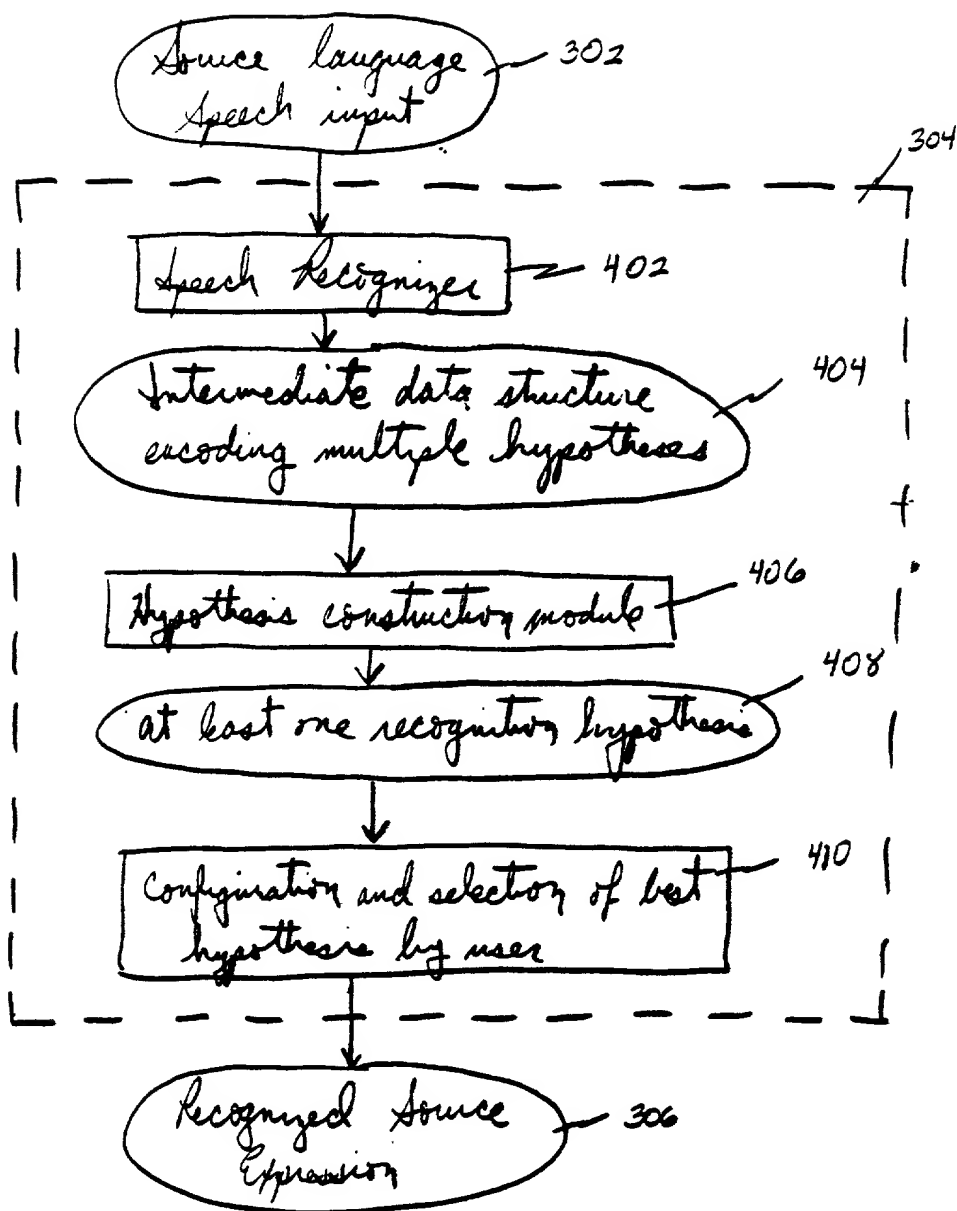


FIGURE 4

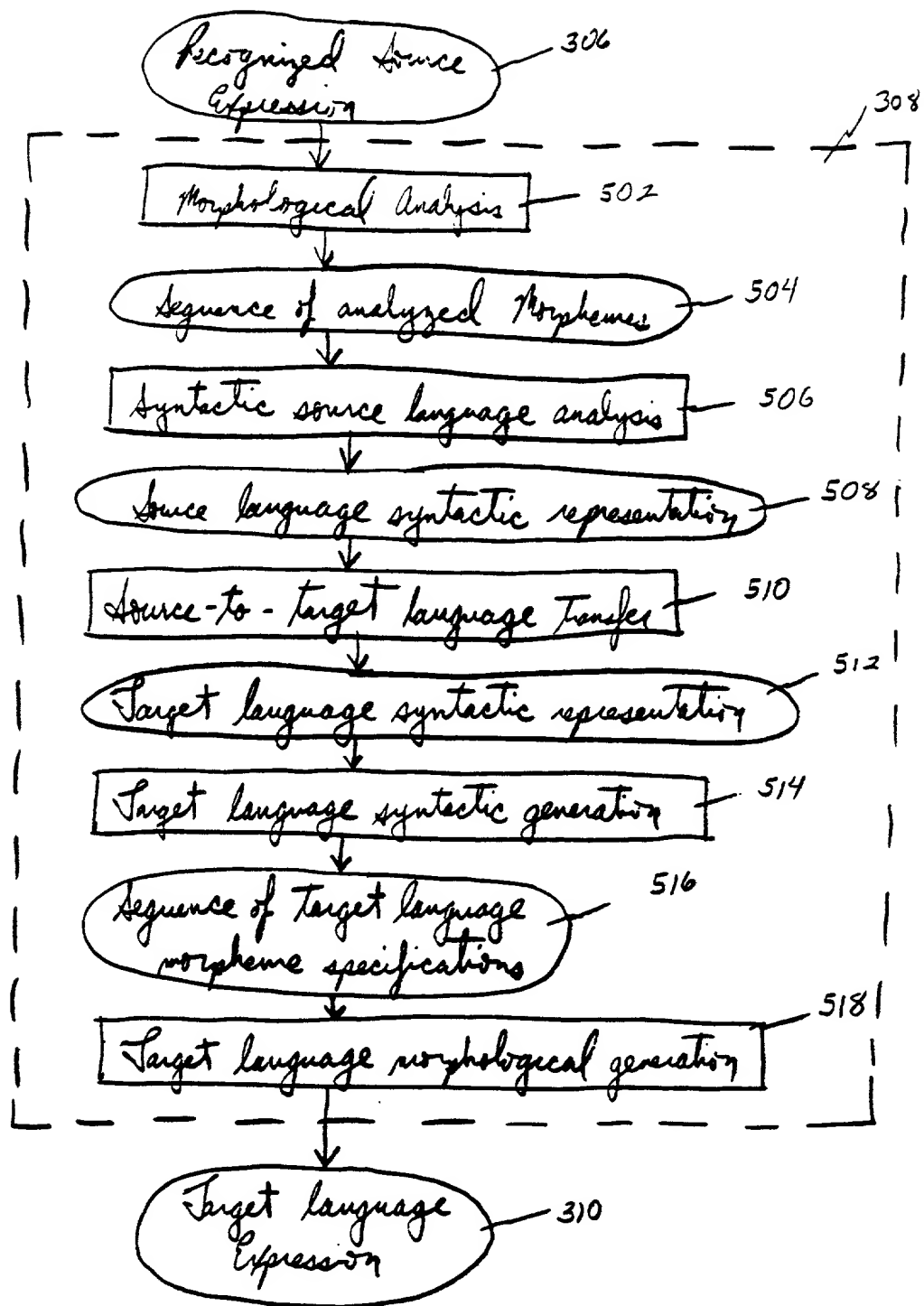


FIGURE 5

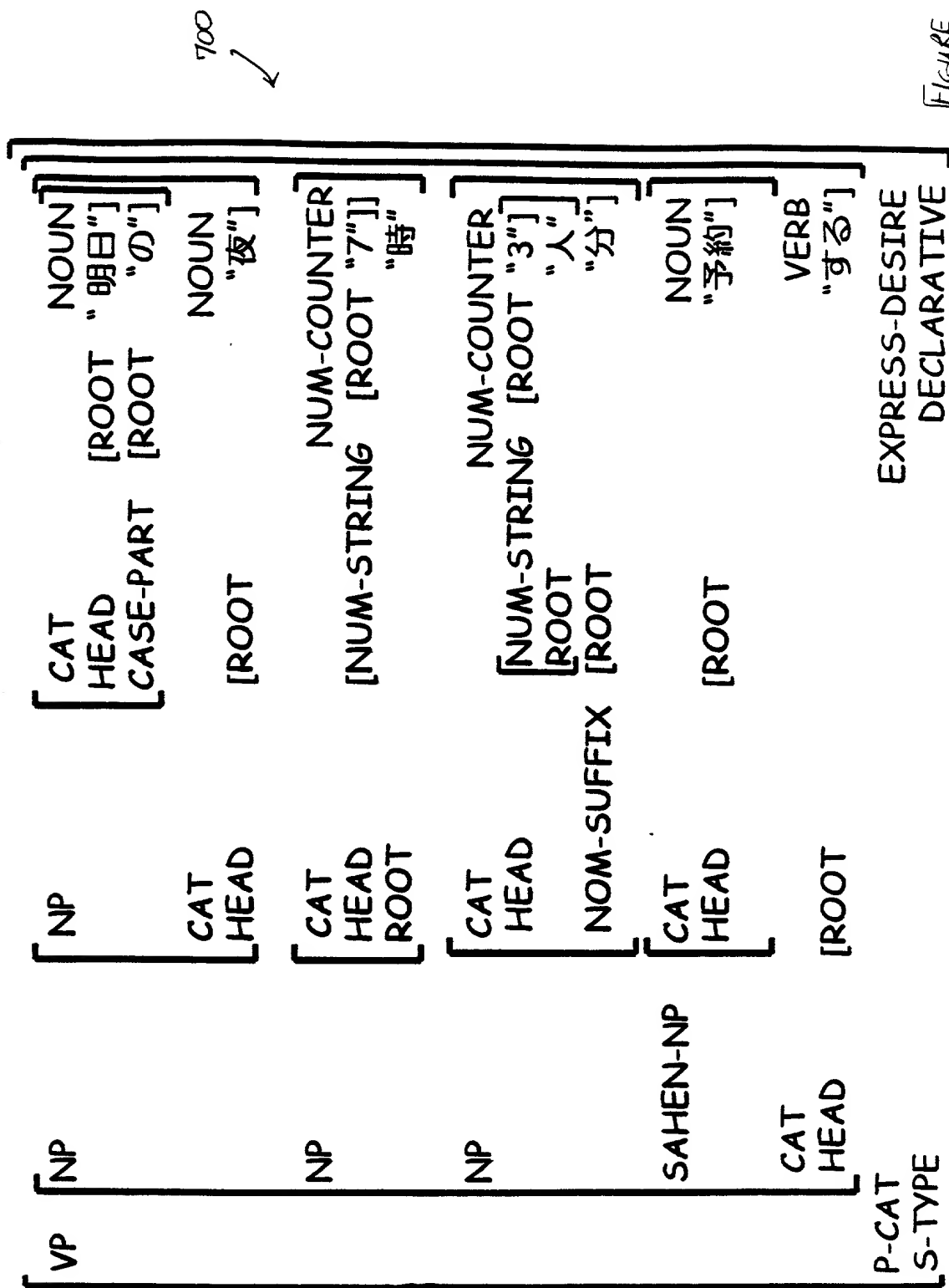


FIGURE 7

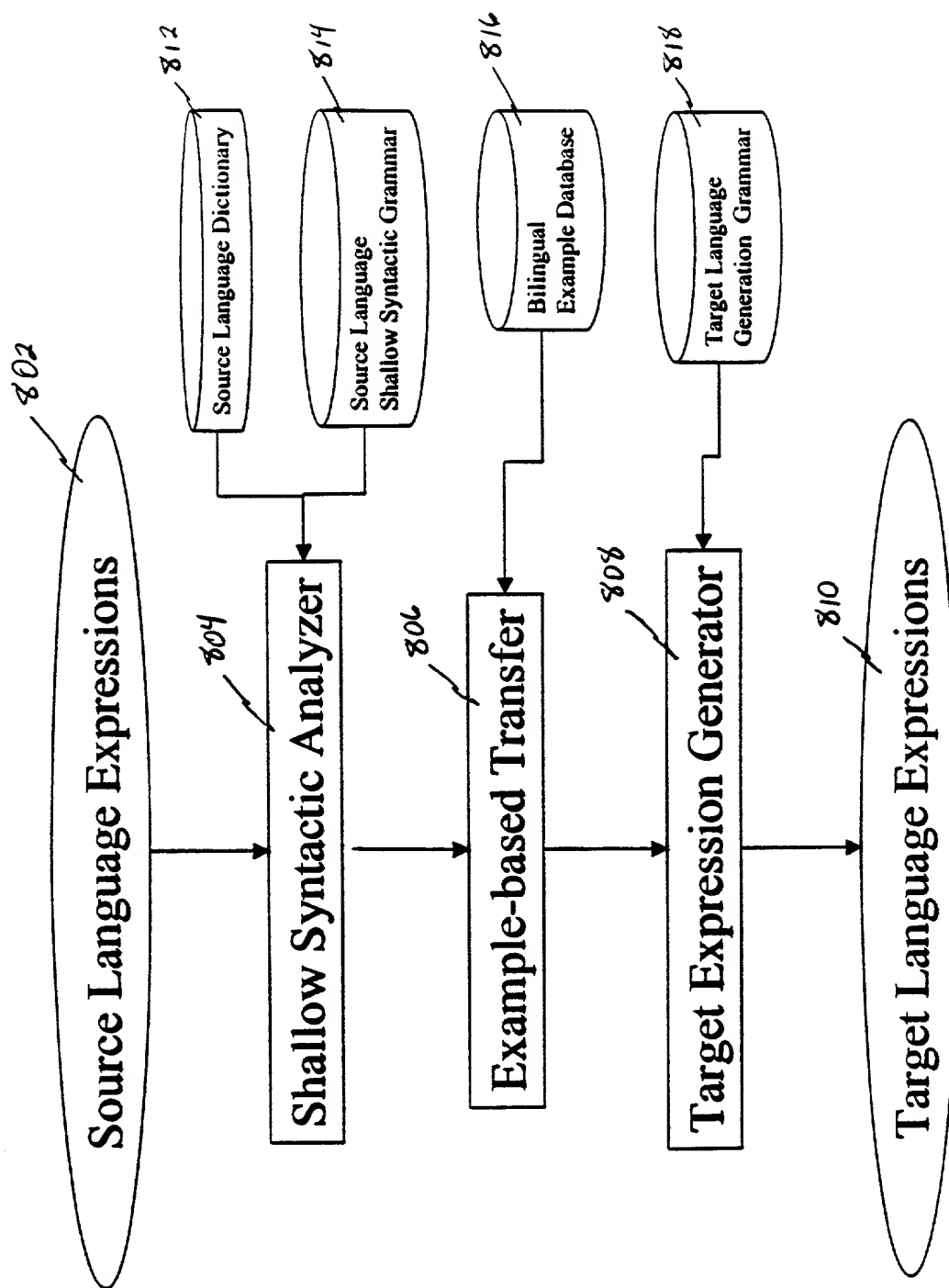


FIGURE 8

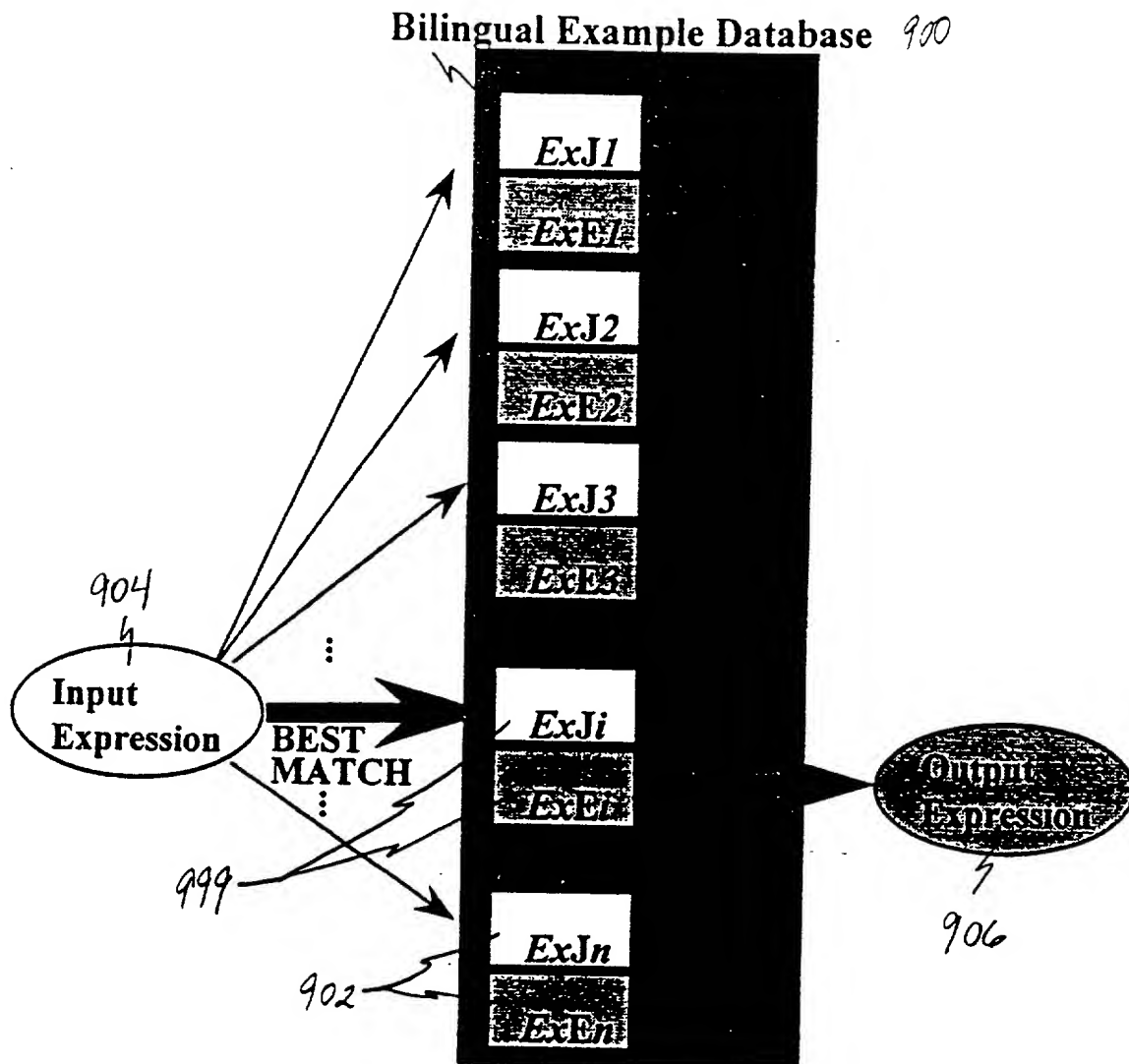


FIGURE 9

1000

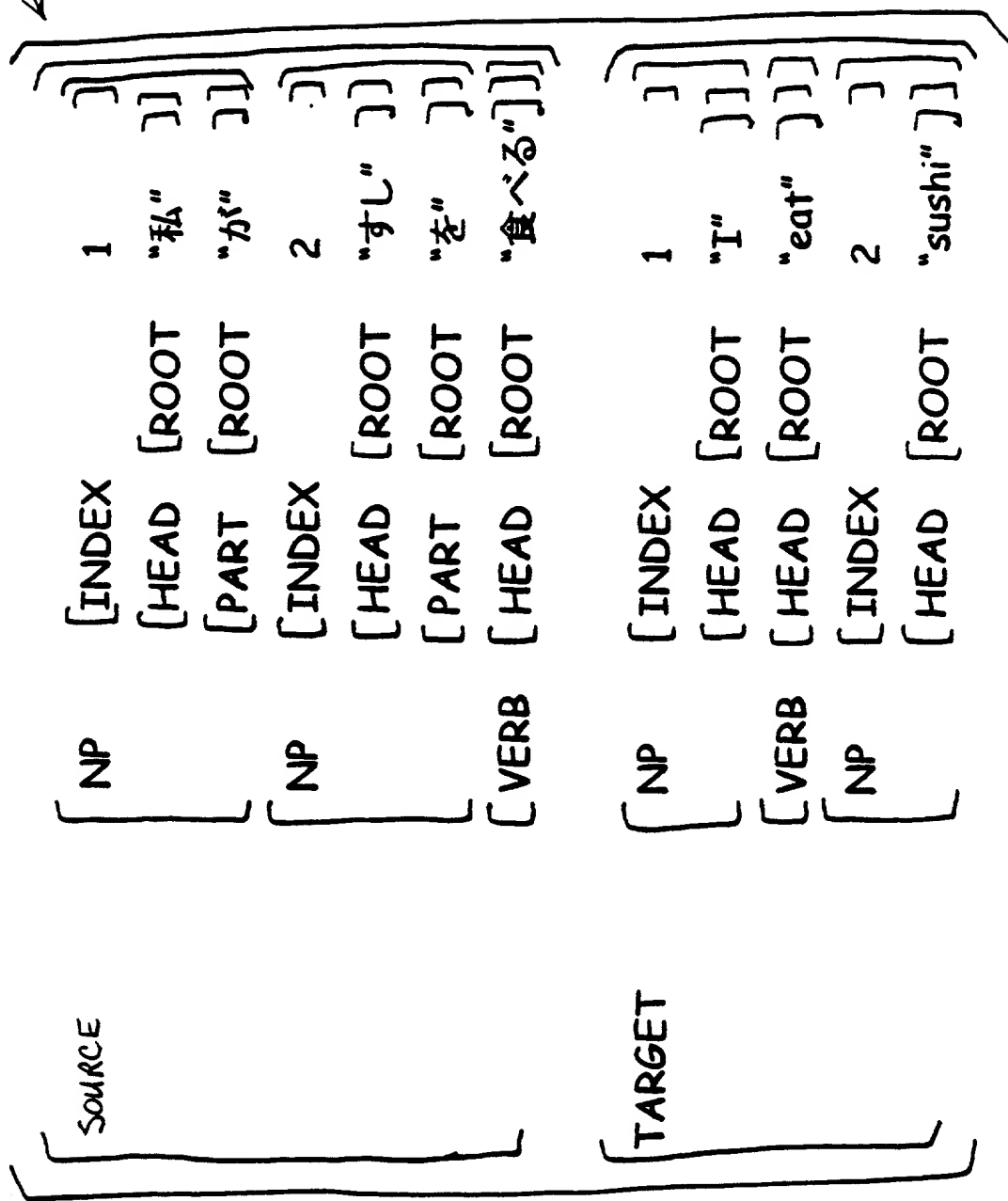


Figure 10

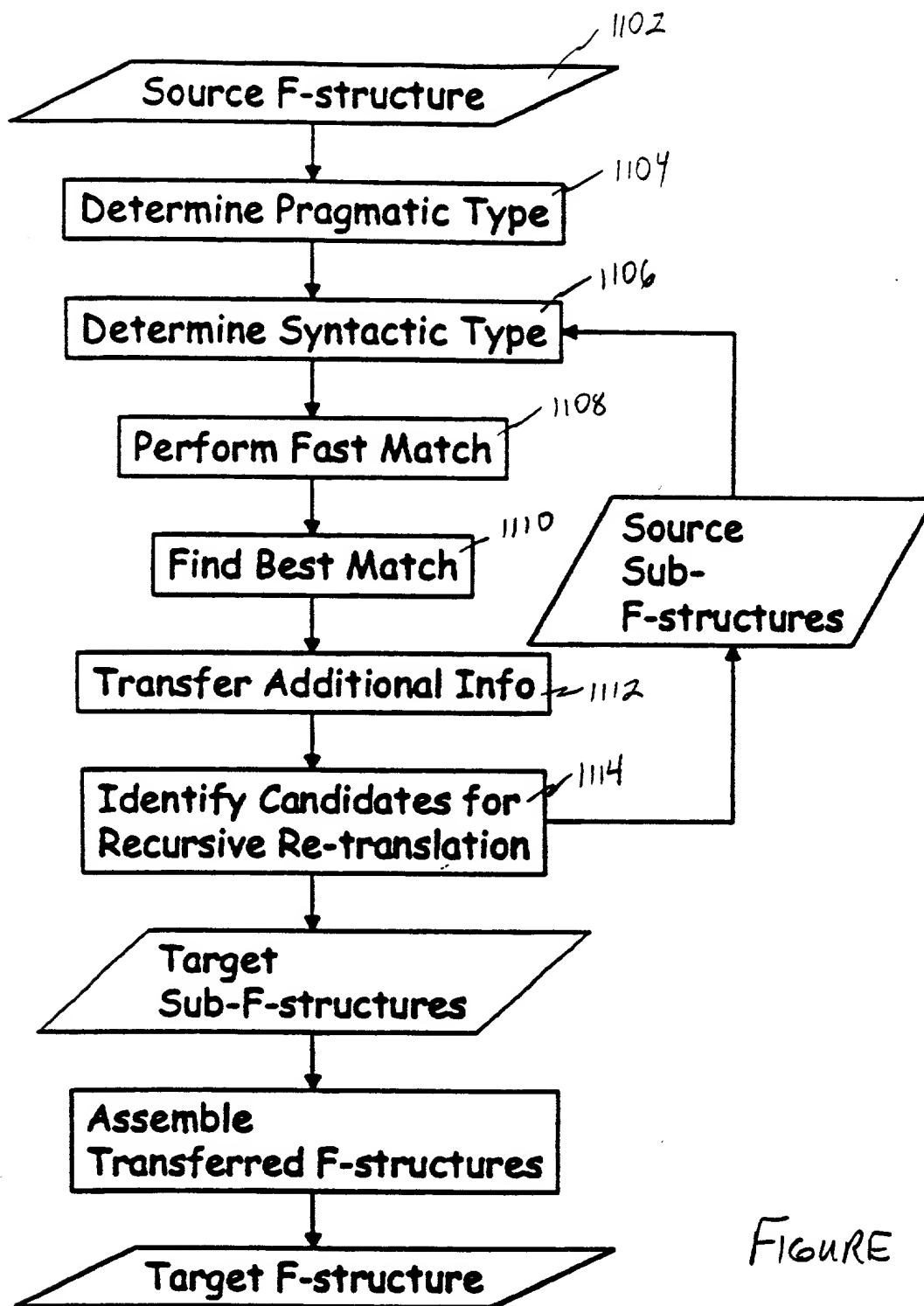


FIGURE 11

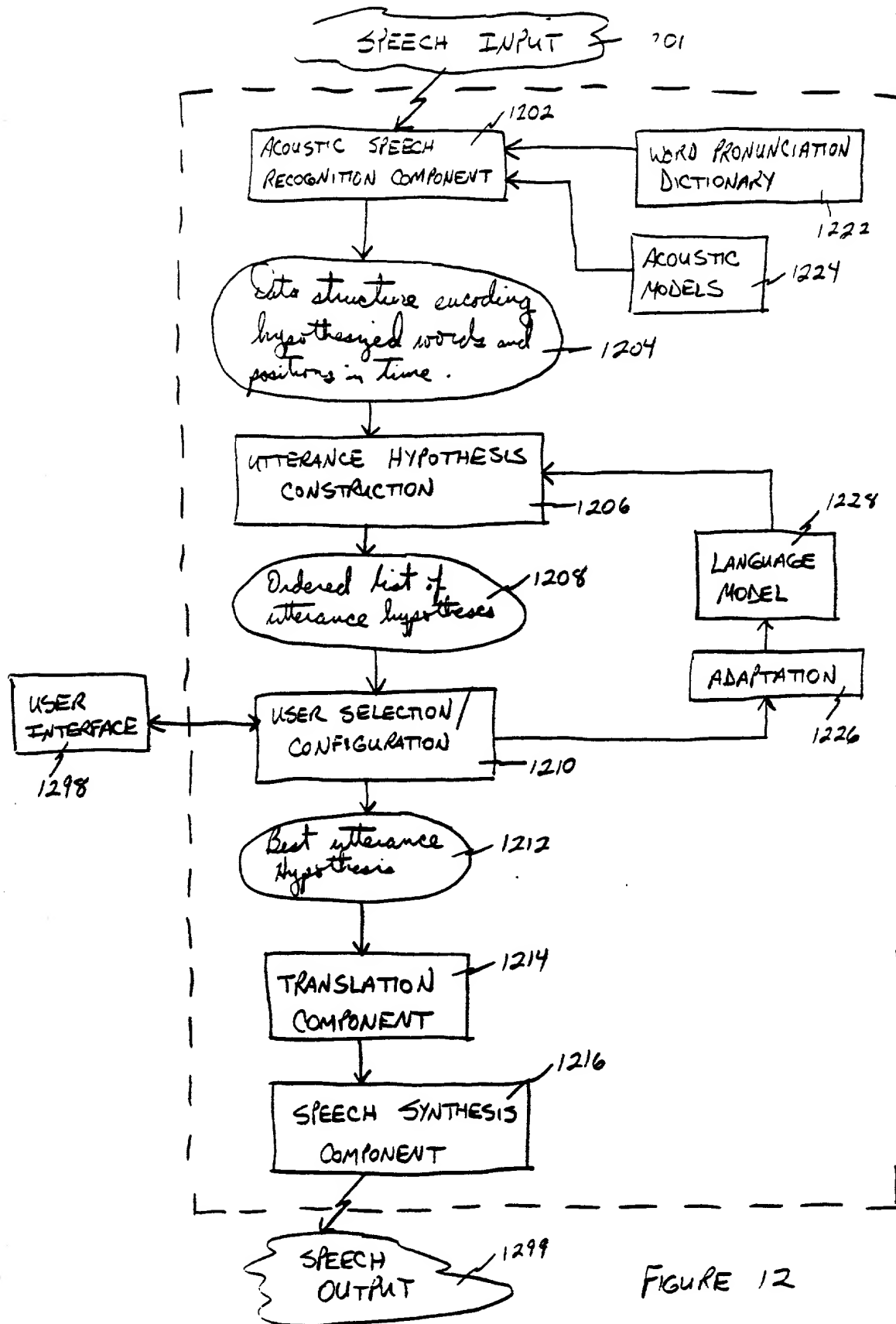


FIGURE 12

Figure 13

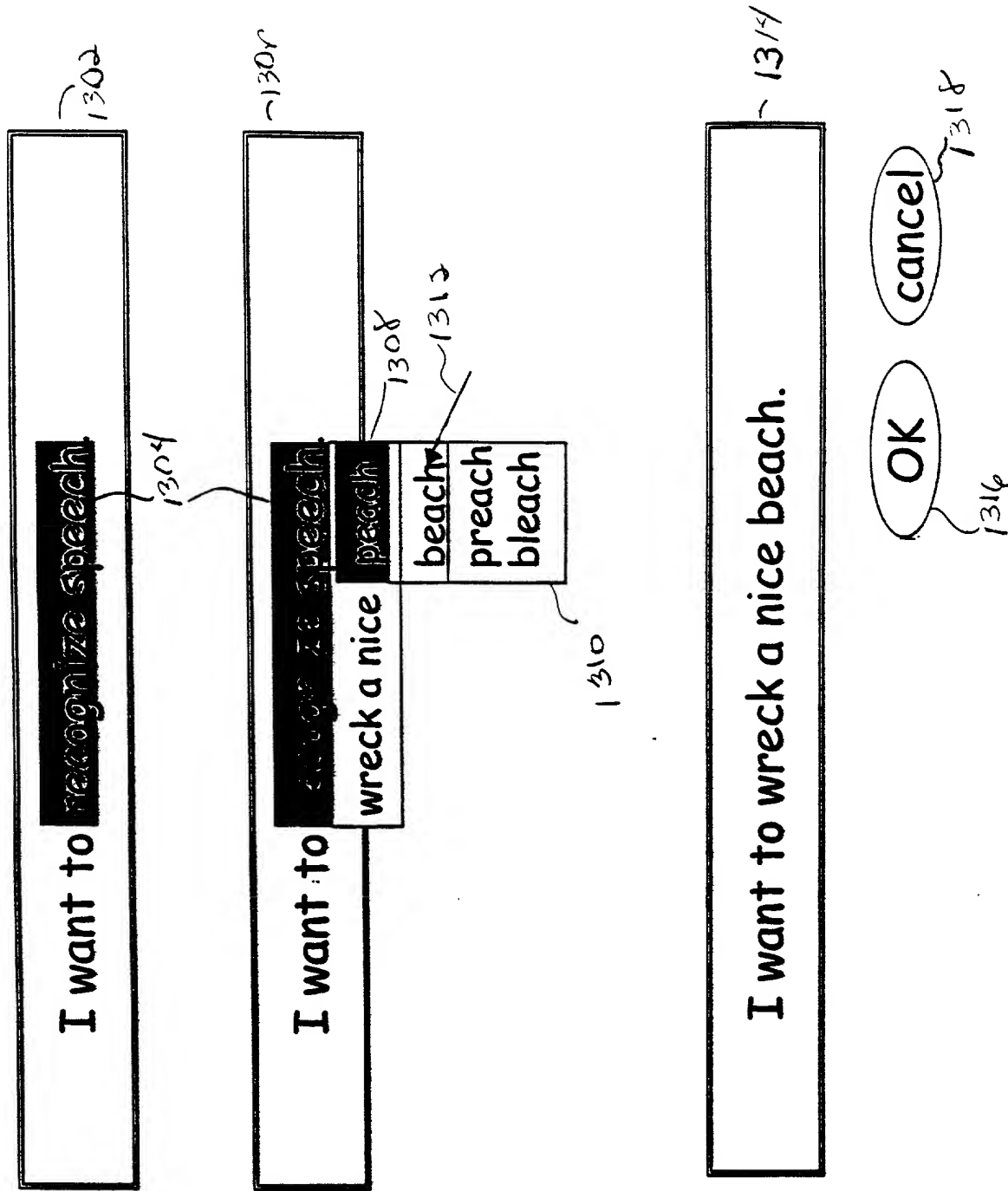


Figure 14

I want to recognize speech. {1401
私は音声を認識したい

I want to wreck a nice peach. {1401
私は素敵な桃を破壊したい

I want to wreck a nice beach. {1401
私は素敵なビーチを破壊したい

I want to wreck a nice beach. {1411
私は素敵なビーチを破壊したい

OK {1414

cancel {1418

Figure 15

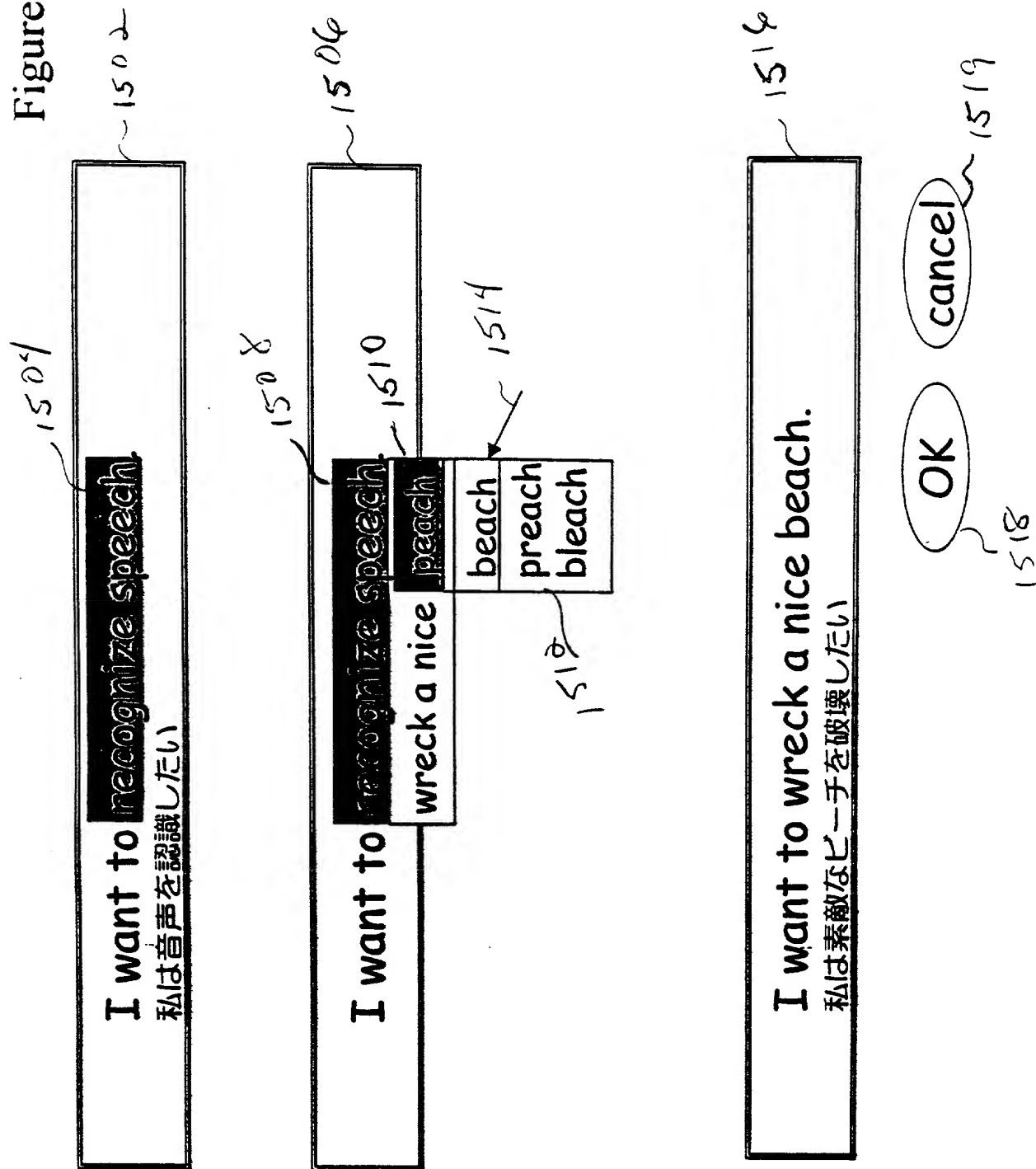


Figure 16

I want to recognize speech. } 1602
 私は音声を認識したい
 "I would like to understand speech"

I want to wreck a nice peach. } 1604
 私は素敵な桃を破壊したい
 "I would like to destroy a good peach"

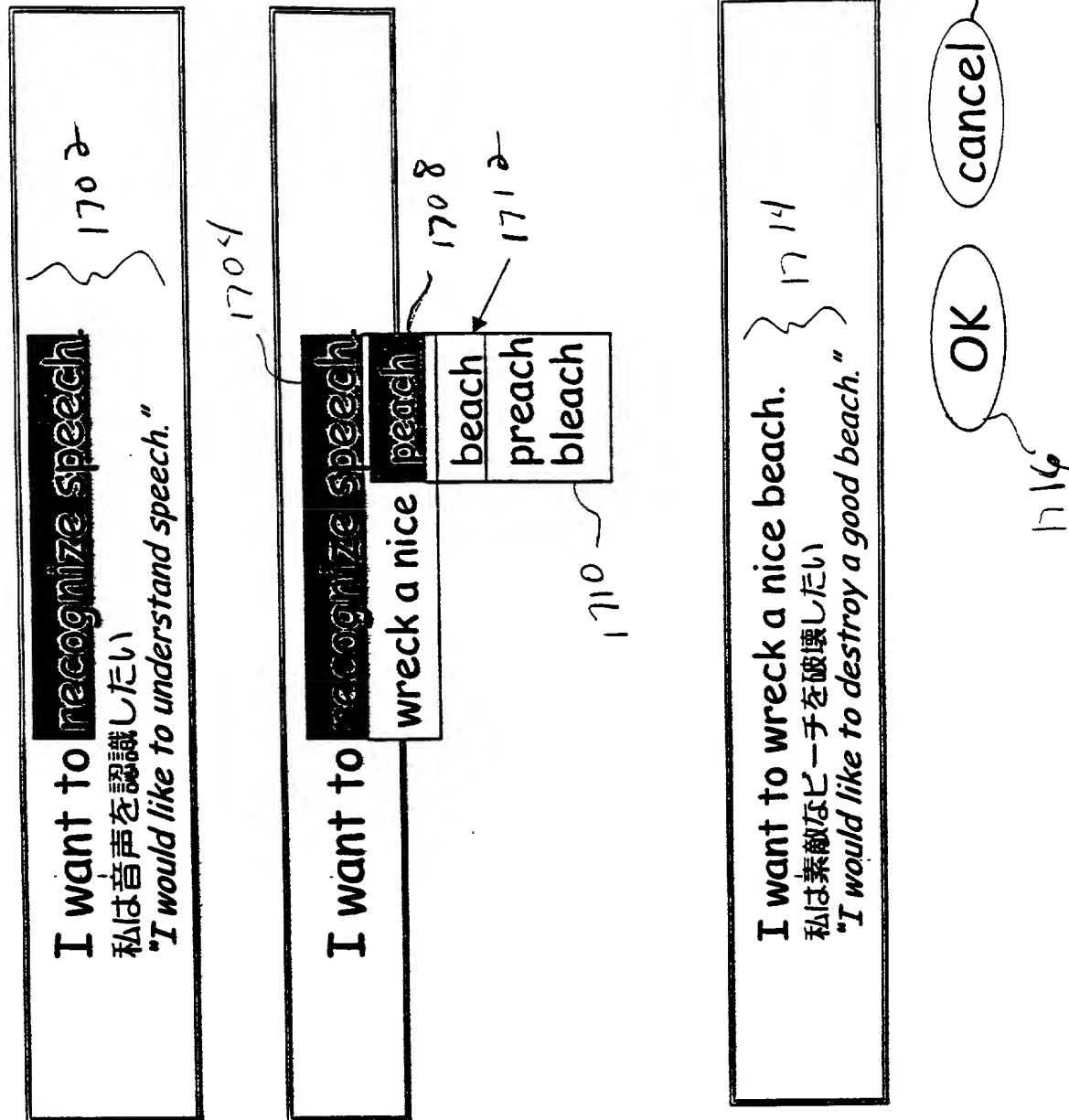
I want to wreck a nice beach } 1606
 私は素敵なビーチを破壊したい
 "I would like to destroy a good beach" 1608

I want to wreck a nice beach. } 1610
 私は素敵なビーチを破壊したい
 "I would like to destroy a good beach."

OK 1612

cancel 1614

Figure 17



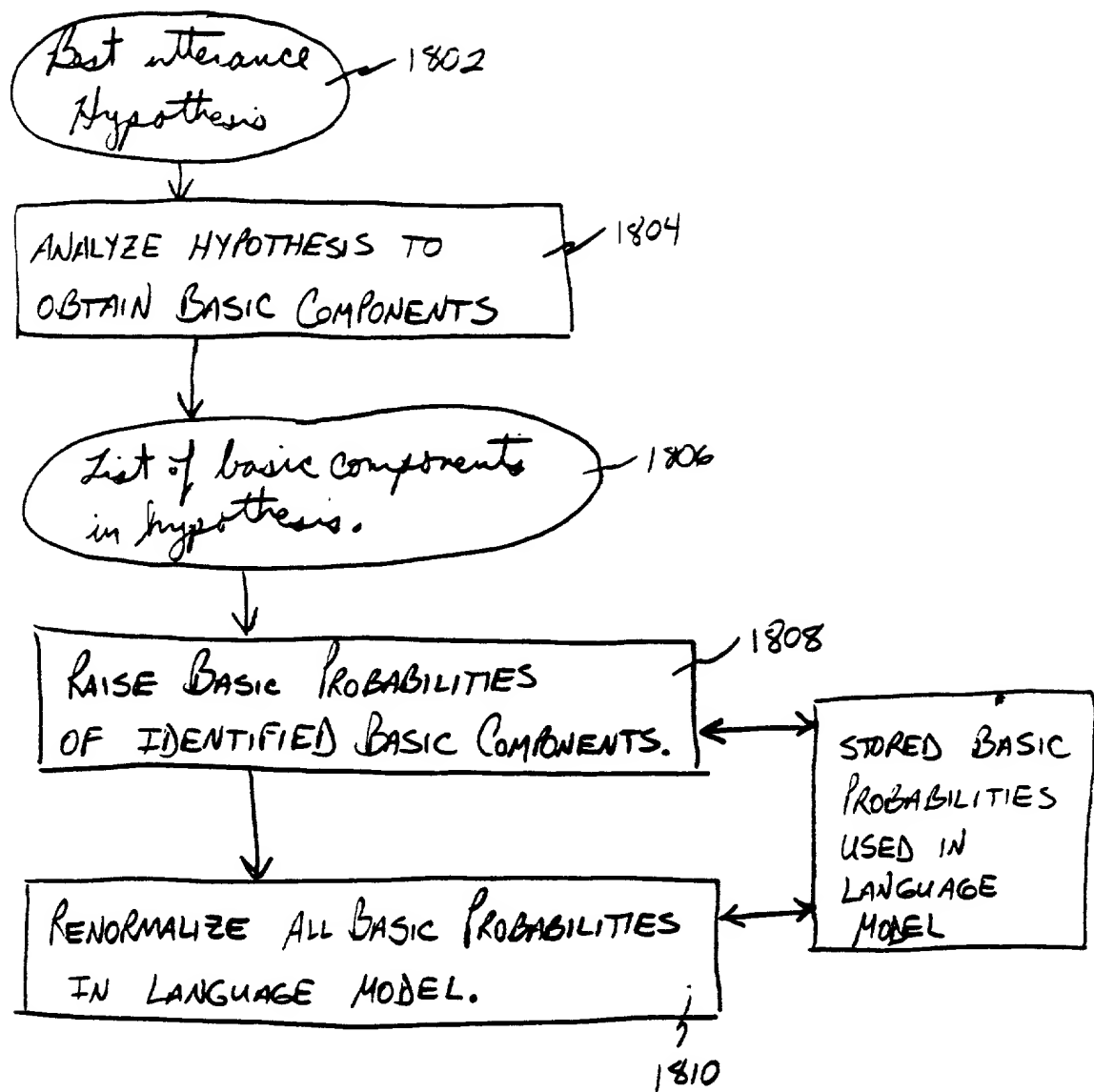


FIGURE 18

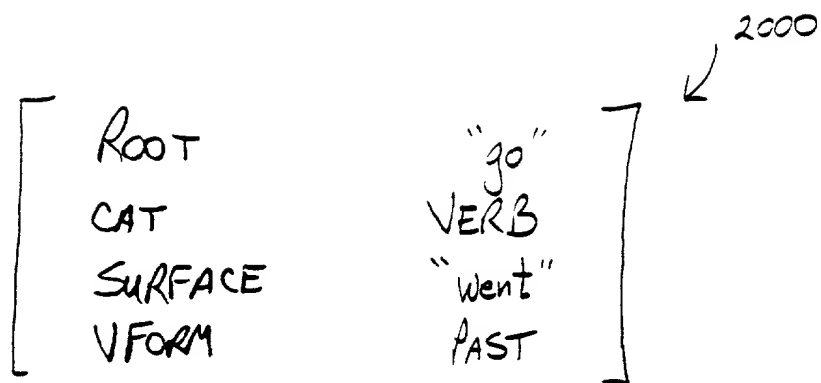


FIGURE 20

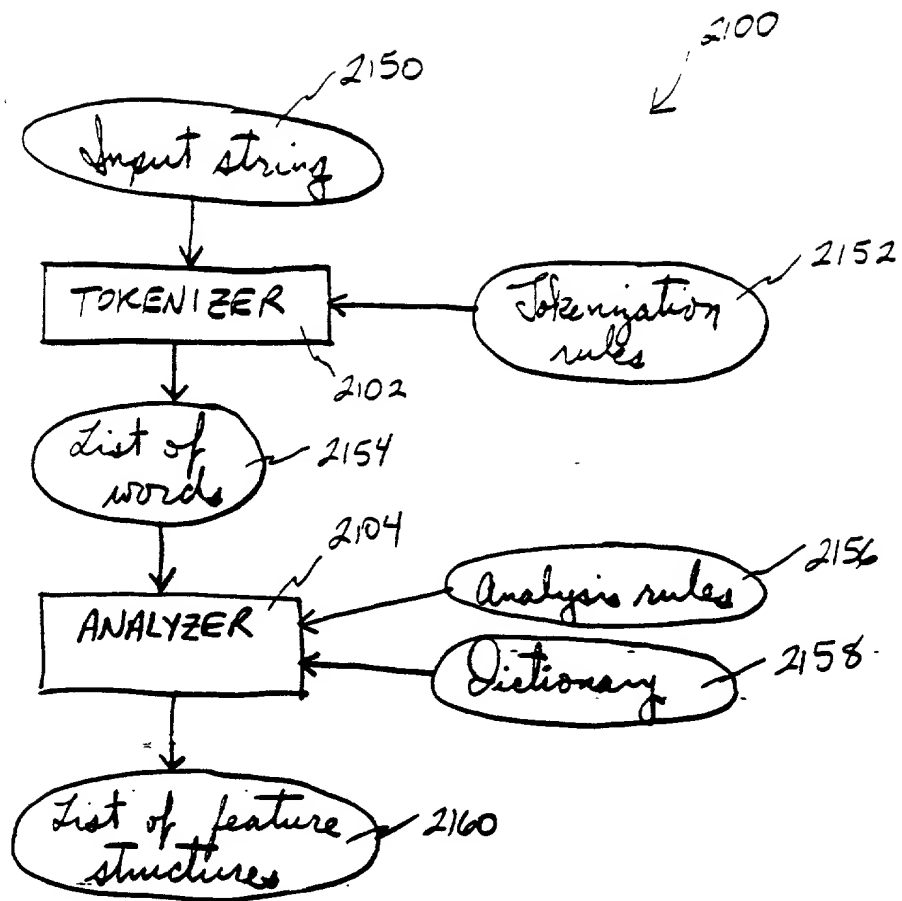


FIGURE 21

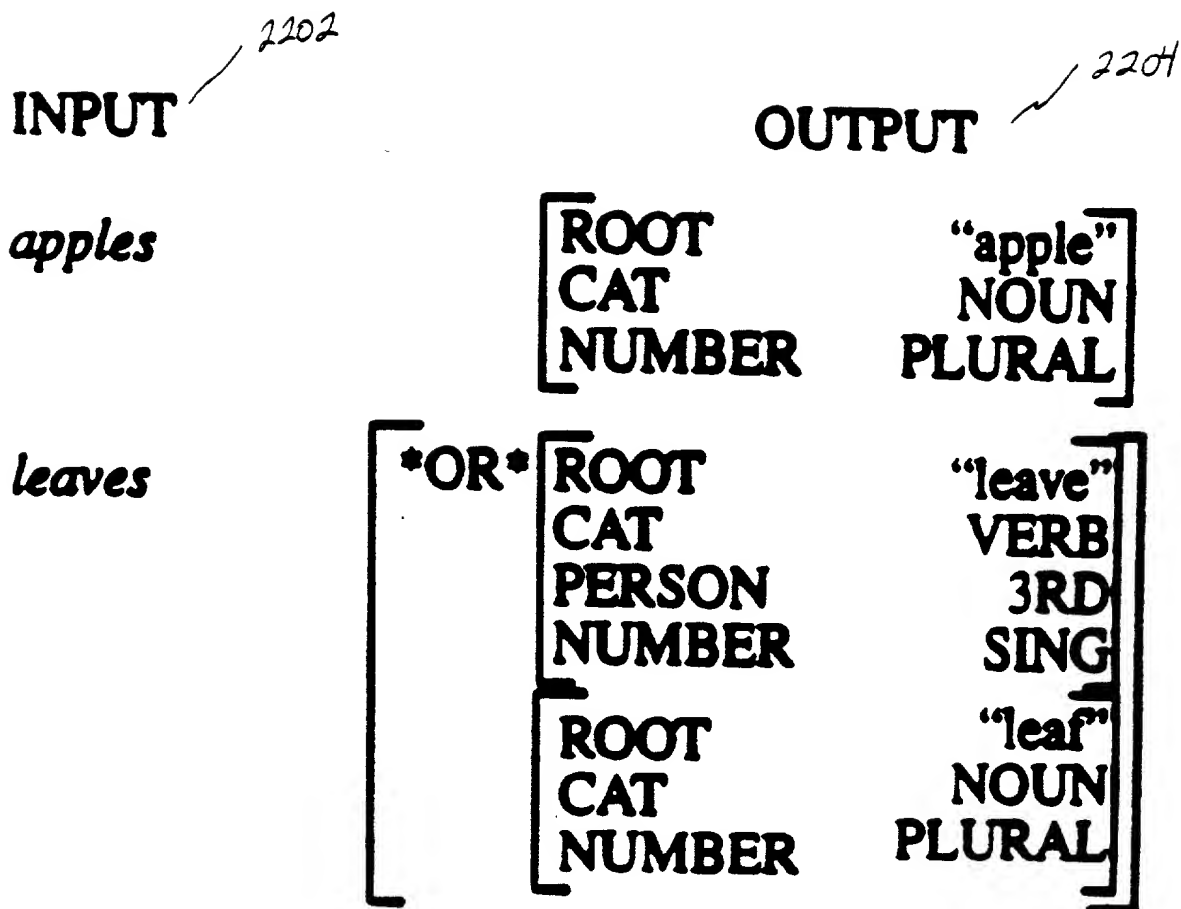


FIGURE 22

2302

| Inflection Type | Feature to trigger Generator or for Analyzer to create |
|---|--|
| past-tense form of verbs | (VFORM PAST) |
| past participle form of verbs | (VFORM PAST-PART) |
| present participle form of verbs | (VFORM PRES-PART) |
| present-tense form of verbs | (VFORM PRES) |
| present-tense 1st-person singular form of verbs | (VFORM PRES)(PERSON 1)(NUM SING) |
| present-tense 3rd-person singular form of verbs | (VFORM PRES) (PERSON 3)(NUM SING) |
| past-tense 1st-person singular form of verbs | (VFORM PAST)(PERSON 1)(NUM SING) |
| past-tense 3rd-person singular form of verbs | (VFORM PAST)(PERSON 3)(NUM SING) |
| comparative form of adjectives/adverbs | (AFORM COMP) |
| superlative form of adjectives/adverbs | (AFORM SUPER) |
| adverbial form of adjectives | (ADVERBIAL +) |
| plural form of nouns | (NUM PLURAL) |
| genitive form of nouns | (CASE GEN) |

FIGURE 23

2402

| Feature-Value Pair | Inflection Rules Applicable | Examples | Notes |
|--------------------|--|---|--|
| CONS-DBL + | present-participle (VERB), past-tense (VERB), past participle (VERB), comparative (ADJ/ADV), superlative (ADJ/ADV) | "running", "submitted", "bigger" | Double final consonant and apply appropriate default rule. If the final consonant is "k", change it into "ck" instead of "kk". |
| Y-TO-I + | past-tense (VERB), past-participle (VERB), present-tense 3rd-person singular (VERB), plural (NOUN), comparative (ADJ/ADV), superlative (ADJ/ADV) | "studied", "studies", "candies", "tidier", "tidiest" | Change the final "y" to "i" and apply appropriate default rule. |
| F-TO-V + | plural (NOUN) | "leaves", "thieves" | Change the final "f" to "v" and apply appropriate default rule. |
| FE-TO-VE + | plural (NOUN) | "knives", "wives" | Change the final "fe" to "ve" and apply appropriate default rule. |
| AD-INFL + | comparative (ADJ/ADV), superlative (ADJ/ADV) | "faster", "fastest" | Generate inflected forms only if this feature exists. Otherwise, use "more"/"most" instead. |
| NO-COMP-SUPER + | comparative (ADJ/ADV), superlative (ADJ/ADV) | "right", "wrong" | Do not form a comparative or superlative if this feature exists. |
| ADJ-TO-ADV + | adverbial (ADJ) | "kindly", "greatly" | Generate adverbial form only if this feature exists. |
| ZERO-PLURAL + | plural (NOUN) | "love" | Do not form a plural if this feature exists |
| ZERO-SING + | plural (NOUN) | "trousers" | Always treat the word as plural. Do not use a singular determiner, etc. |

FIGURE 24

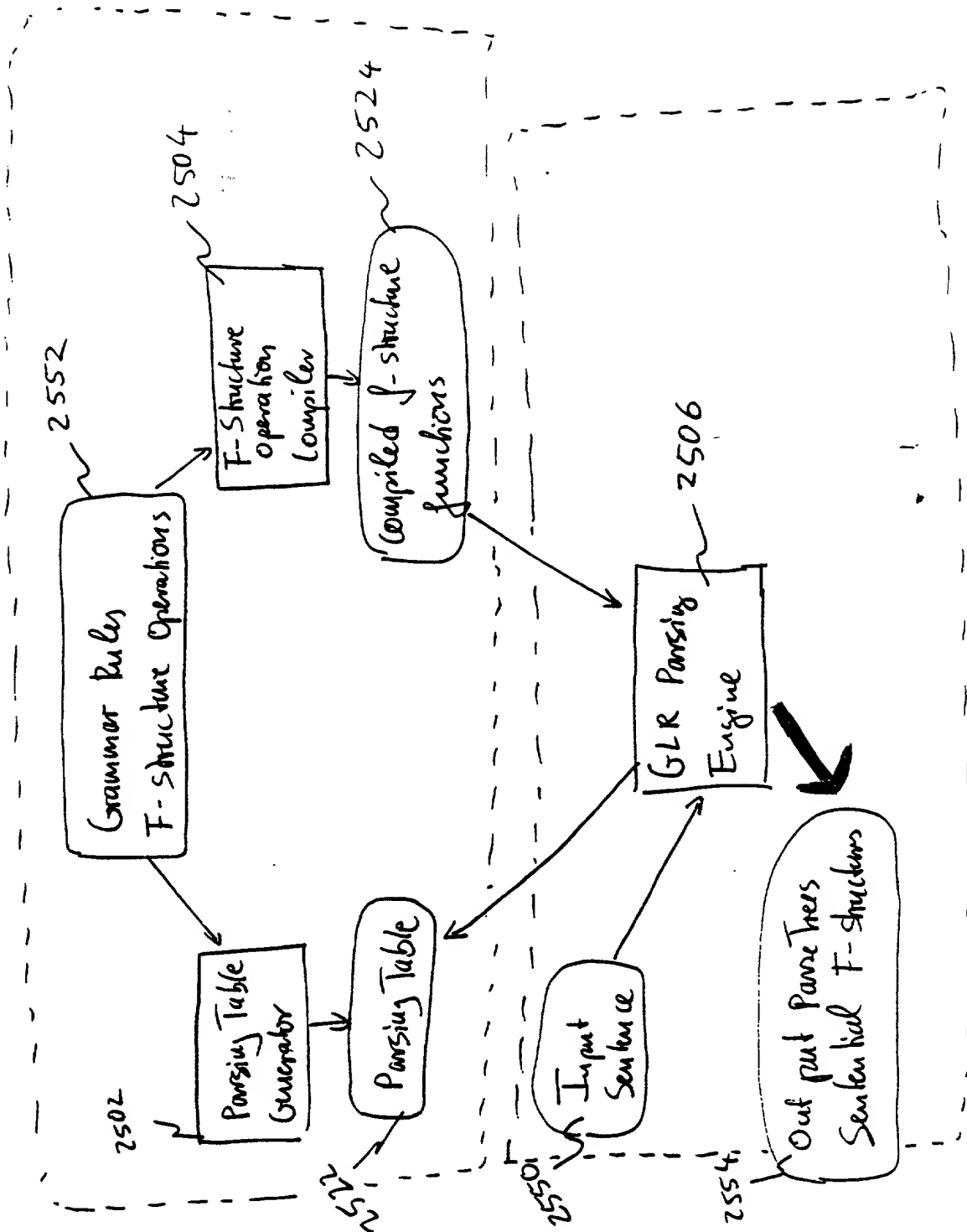


Figure 25

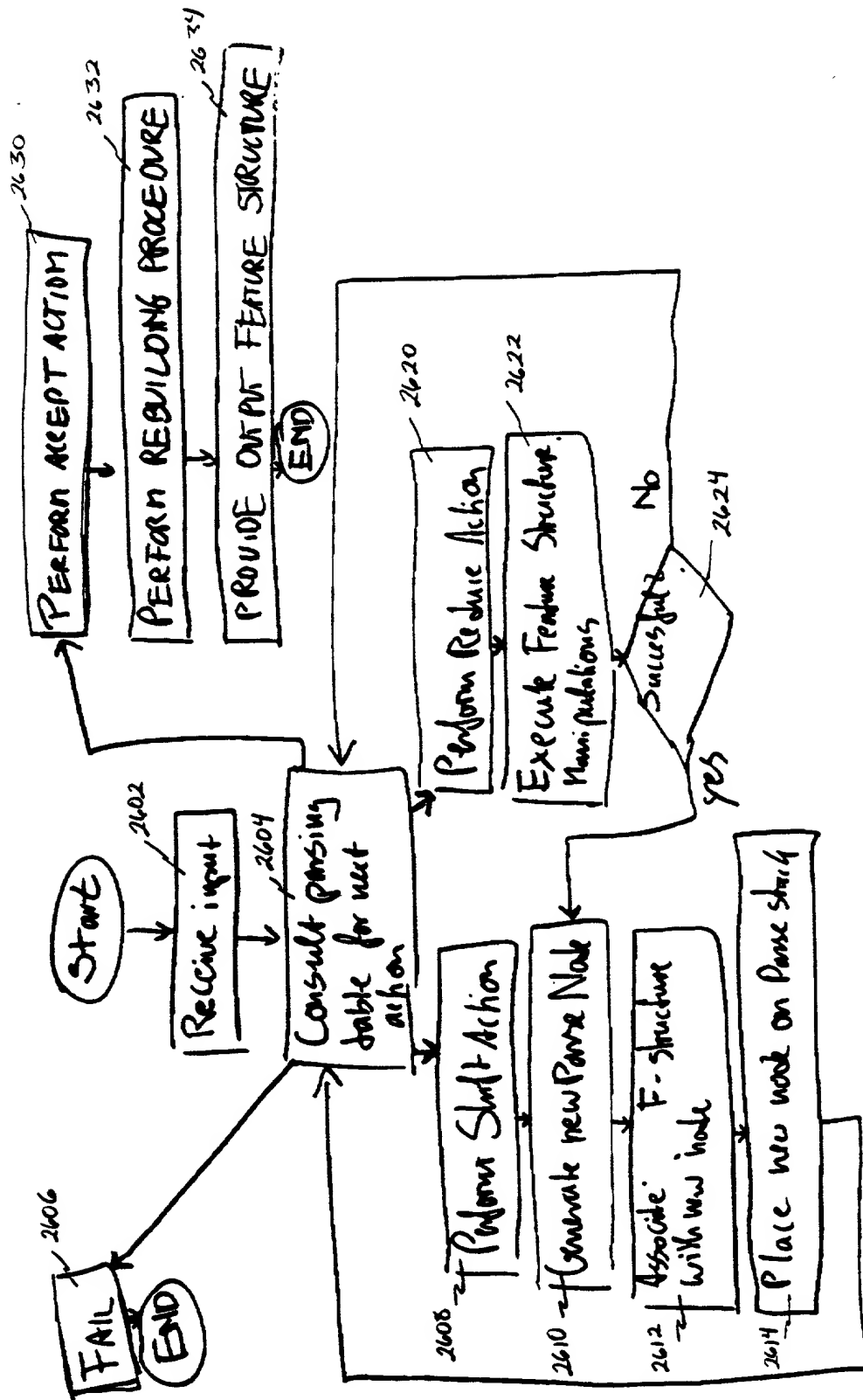


FIGURE 10

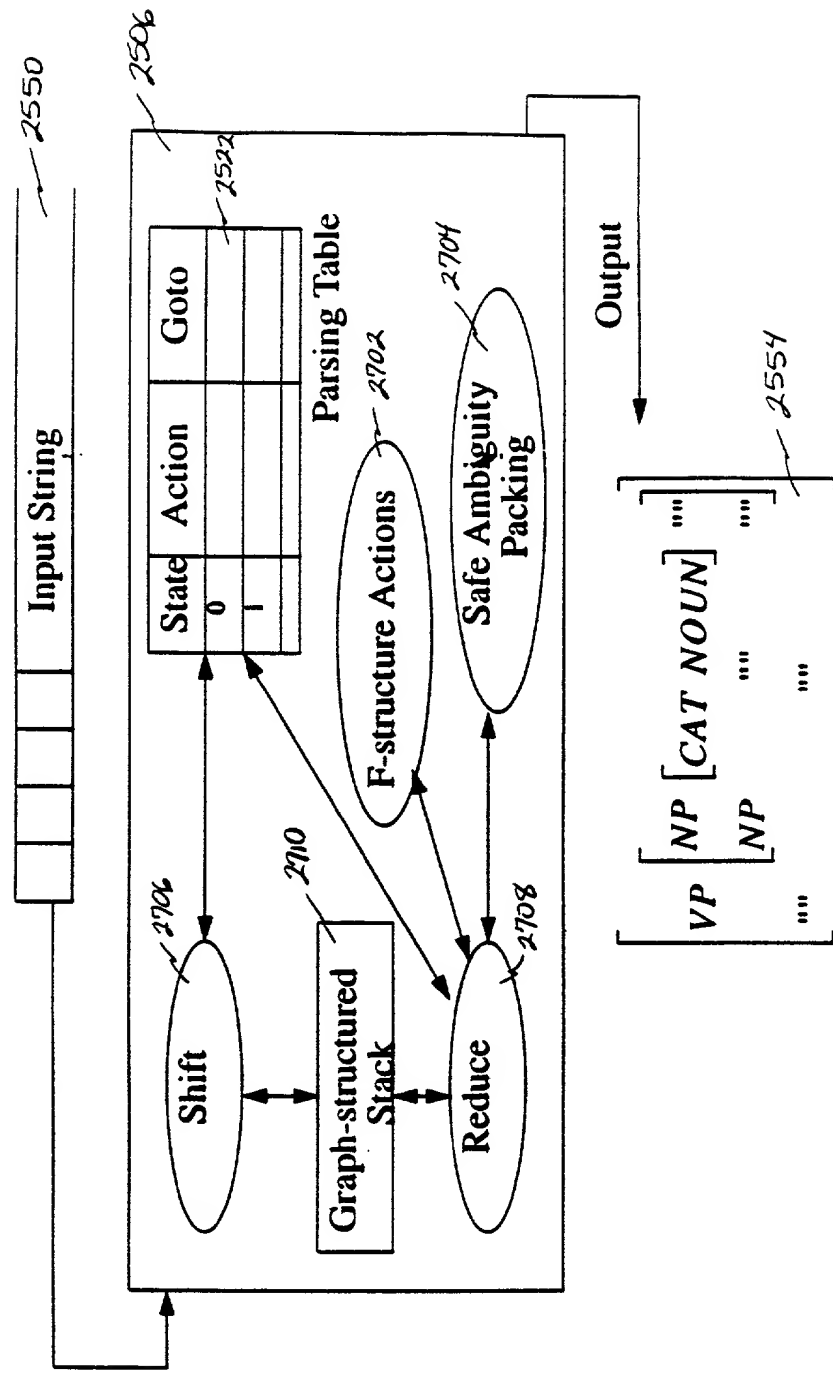


FIGURE 27